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### 81 [On the equivalence of recursive and nonrecursive datalog programs](#)



Surajit Chaudhuri, Moshe Y. Vardi

July 1992 PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART  
symposium on Principles of database systems

**Publisher:** ACM

Full text available: [pdf\(980.01](#)  
[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation Count: 25

We study the problem of determining whether a given recursive Datalog program is equivalent to a given nonrecursive Datalog program. We prove triply exponential upper and lower time bounds.

## 82 Rule Ordering in Bottom-Up Fixpoint Evaluation of Logic Programs

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan

August 1990 VLDB '90: Proceedings of the 16th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1


## 83 Expressiveness of restricted recursive queries



F. Afrati, S. S. Cosmadakis

February 1989 STOC '89: Proceedings of the twenty-first annual ACM symposium on Theory of computing

**Publisher:** ACM

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 20, Citation Count: 14


We study the effect of various syntactic restrictions on the expressive power of database logic programs. We find natural examples of programs which require recursively defined predicates of arbitrarily large width, require ...

## 84 Index nesting – an efficient approach to indexing in object-oriented databases

Beng Chin Ooi, Jiawei Han, Hongjun Lu, Kian Lee Tan

August 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(455.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 38, Citation Count: 2

In object-oriented database systems where the concept of the superclass-subclass is supported, an instance of a subclass is also an instance of its superclass.

Consequently, the access scope of a query against a class in general includes the access scope ...

Keywords: Indexing structures, OODB, Query retrieval

**85** An analysis of magic sets and related optimization strategies for logic queries



Seppo Sippu, Eljas Soisalon-Soininen

November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

**Publisher:** ACM

Full text available: [pdf\(672.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 93, Citation Count: 2

We analyze the optimization effect of the "magic sets" rewriting technique for datalog queries and present some supplementary or alternative techniques that avoid many shortcomings of the basic technique. Given a magic sets rewritten query, ...

Keyw ords: datalog, envelopes, logic query, magic sets

**86** Evaluation of database recursive logic programs as recurrent function series



Georges Gardarin, Christophe de Maindreville

June 1986 SIGMOD '86: Proceedings of the 1986 ACM SIGMOD international conference on Management of data

**Publisher:** ACM

Full text available: [pdf\(882.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 18, Citation Count: 10

The authors introduce a new method to compile queries referencing recursively defined predicates. This method is based on an interpretation of the query and the relations as functions which map one column of a relation to another column. It is shown ...

**87** Decidable optimization problems for database logic programs



Stavros Cosmadakis, Haim Gaifman, Paris Kanellakis, Moshe Vardi

January 1988 STOC '88: Proceedings of the twentieth annual ACM symposium on Theory of computing

**Publisher:** ACM

Full text available: [pdf\(1.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 17, Citation Count: 30

Datalog is the language of logic programs without function symbols. It is used as a database query language. If it is possible to eliminate recursion from a Datalog program &Pgr;, then &Pgr; is said to be bounded. It ...

**88** Fixed-point semantics and the representation of algorithms on large data

Michel de Rougemont

August 1988 VLDB '88: Proceedings of the 14th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0


**89** An experimental performance study of a pipelined recursive query processing strategy



J. Shao, D. A. Bell, M. E. C. Hull

July 1990 DPDS '90: Proceedings of the second international symposium on Databases in parallel and distributed systems

**Publisher:** ACM

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 2

In [16] a pipelined strategy is presented for processing recursive queries in deductive database systems. As a follow-up, this paper studies the run-time performance of the proposed strategy. The algorithm, introduced informally by examples in this paper, ...

**90** Efficient Main Memory Data Management Using the DBGraph Storage Model

Philippe Pucheral, Jean-Marc Thévenin, Patrick Valduriez

August 1990 VLDB '90: Proceedings of the 16th International Conference on Very Large Data Bases


**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 3



September 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 3


Full text available:  pdf(2.58 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present new algorithms for computing transitive closure of large database relations. Unlike iterative algorithms, such as the seminaive and logarithmic algorithms, the termination of our algorithms does not depend on the length of paths in the underlying ...

## 92 Probabilistic Datalog—a logic for powerful retrieval methods



July 1995	SIGIR '95: Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval
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Full text available:  pdf(994.80 KB)

### 93 Parallelizing Datalog programs by generalized pivoting



PODS '91: Proceedings of the tenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Full text available:  pdf (952.59 KB)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 11, Citation Count: 2

## 94 Graph-theoretic methods in database theory



Mihalis Yannakakis

April PODS '90: Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART  
1990 symposium on Principles of database systems

**Publisher:** ACM

Full text available: [pdf\(1.61 MB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 157, Citation Count: 22

## 95 The logical data model



Gabriel M. Kuper, Moshe Y. Vardi

September ACM Transactions on Database Systems (TODS), Volume 18 Issue  
1993 3

**Publisher:** ACM

Full text available: [pdf\(2.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 123, Citation Count: 7

We propose an object-oriented data model that generalizes the relational, hierarchical, and network models. A database scheme in this model is a directed graph, whose leaves represent data and whose internal nodes represent connections among the data. ...

Keyw ords: Algebra, database schema, logic, relational database, tuple calculus

## 96 LogicBase: a deductive database system prototype



Jiawei Han, Ling Liu, Zhaohui Xie

November CIKM '94: Proceedings of the third international conference on  
1994 Information and knowledge management

**Publisher:** ACM

Full text available: [pdf\(912.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation Count: 1

A deductive database system prototype, LogicBase, has been developed, with an emphasis on efficient compilation and query evaluation of application-oriented recursions in deductive databases. The system identifies different classes of recursions ...

**97** On the expected size of recursive Datalog queries



S. Seshadri, Jeffrey F. Naughton

April 1991 PODS '91: Proceedings of the tenth ACM SIGACT-SIGMOD-SIGART  
symposium on Principles of database systems

**Publisher:** ACM

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 8, Citation Count: 1

**98** Deductive database languages: problems and solutions



Mengchi Liu

March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1

**Publisher:** ACM

Full text available: [pdf\(254.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 220, Citation Count: 8

Deductive databases result from the integration of relational database and logic programming techniques. However, significant problems remain inherent in this simple synthesis from the language point of view. In this paper, we discuss these problems ...

Keywords: complex object databases, deductive databases, inheritance, logic programming, nested relational databases, object-oriented databases

**99** New Strategies for Computing the Transitive Closure of a Database Relation

Hongjun Lu

September 1987 VLDB '87: Proceedings of the 13th International Conference on Very  
Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 21

**100** [A correction of the termination conditions of the Henschen-Naqvi technique](#)



David A. Briggs

October 1990 Journal of the ACM (JACM), Volume 37 Issue 4

**Publisher:** ACM

Full text available: [pdf\(620.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation Count: 0

Henschen and Naqvi described a technique for translating queries on recursively defined relations of a Datalog database into iterative programs that invoke a query processor for conventional select-project-join queries of the relational algebra. Although ...

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